

Novartis Crop Protection, Inc
Post Office Box 18300
Greensboro, NC 27419

In Case of Emergency, Call

Novartis : 1-800-888-8372
CHEMTREC : 1-800-424-9300

1. CHEMICAL IDENTIFICATION

Product Name: **BANNER MAXX** Product No.: A-6780 D
EPA Signal Word: Warning
Active Ingredient(%): Propiconazole (14.3%) CAS No.: 60207-90-1
Chemical Name: 1-[[2-(2,4-Dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole
Chemical Class: Triazole Derivative Fungicide

2. COMPOSITION/INFORMATION ON INGREDIENTS

Material	OSHA PEL	ACGIH TLV	Other	NTP/IARC/OSHA Carcinogen
Tetrahydrofurfuryl Alcohol	Not Established	Not Established	Not Established	No
Surfactant	Not Established	Not Established	Not Established	No
Propiconazole (14.3%)	Not Established	Not Established	Not Established	No

3. HAZARDS IDENTIFICATIONNotes to Physician

There is no specific antidote if this product is ingested.
Treat symptomatically.
Contact with eyes may require specialized ophthalmologic attention.
Do not induce emesis.
If a large amount has been ingested, lavage stomach carefully to avoid aspiration.

Symptoms of Acute Exposure

Exposure to eyes can cause substantial, but temporary eye irritation. Prolonged Inhalation of vapors may irritate throat and nasal passages.

Hazardous Decomposition Products

None Known

Physical Properties

Appearance: Clear Yellow-Amber Liquid

Odor: Aromatic Solvent Odor

Unusual Fire, Explosion and Reactivity Hazards

This product is a NFPA Class IIIA Combustible Liquid.

4. FIRST AID MEASURES

If poisoning is suspected, immediately contact a physician, the nearest hospital, or the nearest Poison Control Center. Tell the person contacted the complete product name, and the type and amount of exposure. Describe any symptoms and follow the

advice given.

- Ingestion: Do Not Induce Vomiting. If victim is fully conscious, give a large quantity of water to drink and get medical attention. Never give anything by mouth to an unconscious person.
- Eye Contact: Immediately rinse eyes with a large amount of running water. Hold eye lids apart to rinse the entire surface of the eyes and lids. Do not apply any medicating agents except on the advice of a physician.
- Skin Contact: Wash with plenty of soap and water, including hair and under fingernails. Do not apply any medicating agents except on the advice of a physician. Remove contaminated clothing and decontaminate prior to use.
- Inhalation: Move victim from contaminated area to fresh air. Apply artificial respiration if necessary.

Notes to Physician

- There is no specific antidote if this product is ingested.
- Treat symptomatically.
- Contact with eyes may require specialized ophthalmologic attention.
- Do not induce emesis.
- If a large amount has been ingested, lavage stomach carefully to avoid aspiration.

Medical Condition Likely to be Aggravated by Exposure

None Known

5. FIRE FIGHTING MEASURES

Fire and Explosion

- Flash Point (Test Method): 181 °F (Setaflash)
- Flammable Limits (% in Air): Lower: %; Upper: % Not Available
- Autoignition Temperature: Not Available
- Flammability: Not Applicable

Unusual Fire, Explosion and Reactivity Hazards

This product is a NFPA Class IIIA Combustible Liquid.

In Case of Fire

Use dry chemical, foam, or CO2 extinguishing media. Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak

Wear chemical goggles or a full-face shield, rubber gloves, rubber boots, long-sleeved shirt, long pants, head covering, and a NIOSH-approved supplied-air respirator or a self-contained breathing apparatus (SCBA). For small spills, cover with an absorbent material such as pet litter. Sweep up and place in an approved chemical container. Wash the spill area with water containing a strong detergent, absorb with pet litter or other absorbent material, sweep up and place in a chemical container. Seal the container and handle in an approved manner. Flush the area with water to remove any residue. Do not allow wash water to contaminate water supplies.

7. HANDLING AND STORAGE

Store the material in a well-ventilated, secure area out of the reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco usage, and cosmetic application in areas where there is a potential for exposure to the material. Always wash thoroughly after handling.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS.

- Ingestion: Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Always wash thoroughly after handling.

Eye Contact: To avoid eye contact, wear chemical goggles or a full-face shield.
Skin Contact: To avoid skin contact, wear rubber gloves, rubber boots, long-sleeved shirt, long pants and a head covering.
Inhalation: To avoid breathing vapors or mist, wear a NIOSH-approved supplied-air respirator or a self-contained breathing apparatus (SCBA).

Applicators/Handlers: Please refer to the product label for personal protective clothing/equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear Yellow-Amber Liquid
Odor: Aromatic Solvent Odor
Melting Point: Not Applicable
Boiling Point: Not Available
Specific Gravity/Density: 1.09 g/cm³
pH: 4-7(10% solution in H₂O)

Solubility in H₂O

Propiconazole : 0.1 g/L @ 20°C

Vapor Pressure

Propiconazole : 1.30E-04 Pa @ 20°C

10. STABILITY AND REACTIVITY

Reactivity

Stability: Stable
Hazardous Polymerization: Will Not Occur
Conditions to Avoid: Flame, Heat, Ignition Sources, and Strong Oxidizers

Hazardous Decomposition Products

None Known

11. TOXICOLOGICAL INFORMATION

Acute Toxicity/Irritation Studies

Ingestion: slightly toxic
Oral LD50 (Rat) : 4,340 mg/kg body weight
Dermal: slightly toxic
Dermal LD50 (Rabbit) : > 2,020 mg/kg body weight
Inhalation: slightly toxic
Inhalation LC50 (Rat) : > 2.6 mg/l air - 4 hours
Eye Contact: moderately irritating (Rabbit)
Skin Contact: non-irritating (Rabbit)
Skin Sensitization: Not a sensitizer (Guinea Pig)

Mutagenic Potential

Propiconazole: None observed

Reproductive Hazard Potential

Propiconazole: None observed

Chronic/Subchronic Toxicity Studies

Propiconazole: None observed

Carcinogenic Potential

Propiconazole: Increased incidence of liver tumors at extremely high doses (male mice)

Other Toxicity Informatio

Not Available

Toxicity of Other Components

Surfactant

Exposure can result in eye and skin irritation.

Tetrahydrofurfuryl Alcohol

Acute exposure causes slight irritation of the skin, Prolonged exposure may cause mild nervous system effects.

Target Organs

Active Ingredients

Propiconazole : Liver

Inert Ingredients

Surfactant : Eyes and Skin

Tetrahydrofurfuryl Alcohol : Skin and Central Nervous System

12. ECOLOGICAL INFORMATION

Summary of Effects

Propiconazole:

Low toxicity to wildlife. Highly toxic to fish.

Eco-Acute Toxicity

Propiconazole: Rainbow Trout 96-hour LC50 5.2 mg/L
Bluegill Sunfish 96-hour LC50 >100 ppm
Daphnia magna 48-hour LC50 3.2 mg/L
Bobwhite Oral LD50 2,825 mg/kg
Mallard Oral LD50 >2,510 mg/kg
Bobwhite 8-day Dietary LC50 >5,620 ppm
Mallard 8-day Dietary LC50 >5,620 ppm

Eco-Chronic Toxicity

Propiconazole: Fish (Fathead minnow) Early Life Stage MATC >0.43 and <0.97 mg/L
Invertebrate (Daphnia Magna) Life Cycle MATC >0.31 and <0.69 mg/L
Mallard Reproduction NOEC 300 ppm
Bobwhite Reproduction NOEC 1,000 ppm

Environmental Fate

Propiconazole:

Not Available

13. DISPOSAL CONSIDERATION

Disposal

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

Characteristic Waste Not Applicable

Listed Waste: Not Applicable

14. TRANSPORT INFORMATION

DOT Classification:

Not Applicable; No Label or Placard Required

B/L Freight Classification

Insecticides or Fungicides; Agricultural, N.O.S.

International Transportation

Not Applicable

15. REGULATORY INFORMATION

SARA Title III Classification

Section 311/312: Acute Health Hazard
Chronic Health Hazard
Fire Hazard

Section 313 chemical(s): Propiconazole (14.3%) (CAS No. 60207-90-1)

Proposition 65

Not Applicable

CERCLA Reportable Quantity (RQ)

None

RCRA Classification

Not Applicable

TSCA Status

Exempt from TSCA

16. OTHER INFORMATION

NFPA Hazard Ratings

Health: 2
Flammability: 2
Reactivity: 0

0	Least
1	Slight
2	Moderate
3	High
4	Severe

Questions concerning the safe handling of the product should be referred to:

Industrial Health
1-800-334-9481

Issued Date: 7/24/95
Revised Date: 8/6/98

Supersedes: 4/22/98

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.

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